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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/607,772	06/30/2000	Richard Gu	TI-29215	2609
23494	7590 03/03/2004		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			PERILLA, JASON M	
P O BOX 655474, M/S 3999 DALLAS, TX 75265			ART UNIT	PAPER NUMBER
ŕ			2634	OI .
			DATE MAILED: 03/03/2004	-1

Please find below and/or attached an Office communication concerning this application or proceeding.

•		_		PRG			
•		Application No	Applicant(s)				
		09/607,772	GU, RICHARD				
Office Action Summary		Examiner	Art Unit				
		Jason M Perilla	2634				
The Period for Re _l	MAILING DATE of this communication apply	pears on the cover sheet w	vith the correspondence ac	idress			
THE MAIL - Extensions of after SIX (6) - If the period - If NO period - Failure to rej Any reply rec	ENED STATUTORY PERIOD FOR REPLING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1. MONTHS from the mailing date of this communication. for reply specified above is less than thirty (30) days, a represent of the specified above, the maximum statutory period ply within the set or extended period for reply will, by statute the set of the specified above, the maximum statutory period ply within the set or extended period for reply will, by statute the set of the specified above, the maximum statutory period by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a bly within the statutory minimum of thi will expire SIX (6) MO te. cause the application to become A	reply be timely filed irty (30) days will be considered time NTHS from the mailing date of this c BANDONED (35 U.S.C. § 133).				
Status							
1)⊠ Resp	oonsive to communication(s) filed on 29 L	December 2003.					
• —	☑ This action is FINAL. 2b) ☐ This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
close	ed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition o	f Claims						
4)⊠ Clair	m(s) <u>2 and 3</u> is/are pending in the applica	ition.					
4a) C	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)∐ Clair	n(s) is/are allowed.						
6)⊠ Clair	m(s) <u>2 and 3</u> is/are rejected.						
7)∐ Clair	n(s) is/are objected to.						
8)⊡ Clair	m(s) are subject to restriction and/	or election requirement.	•				
Application P	apers						
9)⊠ The s	specification is objected to by the Examin	er.					
10)⊠ The o	0)⊠ The drawing(s) filed on <u>29 December 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Appli	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
•	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The d	path or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form P	TO-152.			
Priority under	r 35 U.S.C. § 119						
12) Ackn	owledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)∏ All	b)☐ Some * c)☐ None of:						
1.[Certified copies of the priority documer	nts have been received.					
2.	Certified copies of the priority documer	nts have been received in .	Application No				
3.[Copies of the certified copies of the price	ority documents have bee	n received in this National	l Stage			
	application from the International Burea	au (PCT Rule 17.2(a)).					
* See th	ne attached detailed Office action for a lis	t of the certified copies no	t received.				
Attachmort(-)							
Attachment(s) 1) Notice of R	eferences Cited (PTO-892)	4) Interview	Summary (PTO-413)				
	raftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date				
	Disclosure Statement(s) (PTO-1449 or PTO/SB/08)/Mail Date	5)	Informal Patent Application (PT	O-152)			

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DETAILED ACTION

1. Claims 2-3 are pending in the instant application.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the following claimed features must be clearly shown in **one** of or **among** the drawings. Otherwise, the feature(s) should be canceled from the claim(s). No new matter should be entered.

Figure 3 is the representative block diagram of the preferred embodiment according to claim 2. Figures 4-19 illustrate various blocks within the block diagram of figure 3. However, none of the figures feature the following features of claim 2.

- a. The input to the phase selection circuit of two said outputs of the voltage controlled oscillator in line 21 of claim 2 is not shown in the figures.
- b. The data recovery error signals of (line 23) of claim 2 are not clearly shown in the figures.
- c. The two clock outputs of the phase selection circuit (line 25) of claim 2 received by the phase interpreter are not clearly shown in the figures.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to because of the following informalities. A proposed drawing correction or corrected drawings are required in reply to the Office action to

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avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Regarding figure 3, where more than one connection is made between blocks in a block diagram, it is suggested by the examiner that the drawing illustrates multiple connections between blocks.

Claim Objections

4. Claim 2 is objected to because of the following informalities:

Claim 2 recites the limitation "said clock outputs of said voltage controlled oscillator" in line 21. There is insufficient antecedent basis for this limitation in the claim.

The phase interpreter of line 24 is shown in figure 3 as a phase interpolator. The claim and the drawing(s) should be corrected to use the same description.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 2 and 3 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 2, it provides a limitation including "said data recovery error signals" in lines 23 and 28. There is insufficient antecedent basis for this limitation in the claim, and it renders the claim indefinite. The phase selection circuit produces an interpolation code that is dependent upon the said data recovery error signals.

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However, the data recovery error signals have no origin in the claim. The data recovery signals can not necessarily be understood to be generated by the data recovery block because the data recovery block performs a deserializing function, and the data recovery block is not clearly shown in the drawings as having a data recovery error signals output.

Further regarding claim 2, it provides a limitation including "said two clock outputs of said phase selection circuit" in line 25. There is insufficient antecedent basis for this limitation in the claim, and it renders the claim indefinite. The phase interpreter uses the "said two clock outputs of said phase selection circuit" to generate a single interpolation output. However, the two clock outputs have no origin in the claim. The "said two clock outputs of said phase selection circuit" are not disclosed as being output from the phase selection circuit, and they are not shown in the drawings. The claim discloses that the phase selection circuit generates an interpolation code, but it does not disclose generating two clock outputs. Further, the drawings do not support the generation of two clock outputs from the phase selection circuit. Therefore, the claim is indefinite.

Regarding claim 3, it is rejected as being dependent upon the rejected parent claim 2.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M Perilla whose telephone number is (703) 305-0374. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Chin can be reached on (703) 305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason M Perilla February 17, 2004

In on Dels

jmp

STEPHEN CHIN SUPERVISORY PATENT EXAMINE

TECHNOLOGY CENTER 2600